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Data Sheet

August 13, 2026

KEITHLEY

Keithley 2100/220 " 6½-Digit USB Multimeter

Keithley 2100/220 6.5 Digit USB Digital Multimeter 220 Vac The Keithley 2100/220 is the 220 Vac line version of the Model 2100 6.5-digit USB digital multimeter. Basic 1-year DCV accuracy is 0.0038 percent of reading plus 0.0006 percent of range on the 10 V range (23 plus/minus 5 C). Eleven measurement functions, eight math functions, TMC-compliant USB 2.0, selectable front/rear inputs, and a 2000-reading buffer. At 6.5 digits it delivers 50 triggered readings/s over USB; at 4.5 digits over 2000 readings/s into the buffer. The Keithley 2100/220 is the 220 Vac line version of the Model 2100 6.5-digit USB digital multimeter. Basic 1-year DCV accuracy is 0.0038 percent of reading plus 0.0006 percent of range on the 10 V range (23 plus/minus 5 C). Eleven measurement functions, eight math functions, TMC-compliant USB 2.0, selectable front/rear inputs, and a 2000-reading buffer. At 6.5 digits it delivers 50 triggered readings/s over USB; at 4.5 digits over 2000 readings/s into the buffer. Bench and system DCV/ohms metrology on 220 Vac mains



MODEL

Keithley 2100/220

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2100/220

LISTING

<https://aumictechlabs.com/products/2100-220-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 2100/220 is a 6½-digit USB multimeter engineered for precision measurements across R&D, test engineering, scientific research, and educational environments. This instrument delivers 0.0038% basic DC voltage accuracy on the 10V range and supports a comprehensive

measurement suite including DC/AC voltage and current, two- and four-wire resistance, frequency, period, diode testing, capacitance, and temperature. The vacuum fluorescent display with three-color annunciators provides real-time feedback, while True RMS measurement ensures accurate AC waveform characterization. Built for both benchtop and automated test system integration, the 2100/220 combines laboratory-grade precision with practical affordability and rugged construction rated for bench, portable, and stacking applications. Technical Specifications Resolution: 6½ digits DC Voltage Accuracy (1-year, 10V range): 0.0038% basic Resistance Accuracy (1-year, 10kΩ range): 0.005% basic Maximum Input: 1000V all ranges (2-wire input) Maximum AC Voltage: 750V Maximum AC/DC Current: 3A Maximum Resistance Measurement: 0.1GΩ (100MΩ) True RMS Capable: Yes Operating Temperature: 5°C to 40°C Dimensions: 375 mm (L) × 256 mm (W) × 112 mm (H) Weight: 4.1 kg Key Features Measurement Functions: DC voltage, AC voltage, DC current, AC current, two-wire and four-wire resistance, frequency, period, diode test, capacitance, temperature High-Speed Acquisition: 50 triggered readings/s at 6½ digits via USB; over 2000 readings/s at 4½ digits in internal buffer mode Math Functions: Ratio, percentage, min/max, NULL, limits, mX+b, dB, and dBm Display: 5×7 dot matrix vacuum fluorescent display (VFD) with three-color annunciators Input Selection: Selectable front/rear inputs for bench or rack configurations Rugged Design: Rubber bumpers for protection in various deployment scenarios Compatibility & Integration USB Interface: TMC-compliant USB 2.0 connectivity with SCPI programming support Software Drivers: LabVIEW driver and Keithley I/O Layer included PC Integration: KI-Link Add-in for Microsoft Word and Excel graphing and data sharing Startup Software: KI-Tool utility included Standards: EN 61326-1, EN 61010-1, IEC 801-2/3/4, RoHS compliant, CE marked, UL listed

2100 Characteristics / Specifications

PARAMETER	VALUE
Model	2100/220
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	6.5 digit USB digital multimeter
Alias	2100/220; 2100220; Keithley 2100 220 Vac
Line Voltage	220 Vac
Line Frequency	50/60 Hz auto detected
Power Consumption	25 VA max
Resolution	6.5 digits
Basic DCV Accuracy	0.0038 percent of reading (10 V range, 1 year, 23 plus/minus 5 C)
Basic Ohms Accuracy	0.013 percent of reading (10 kohm range, 1 year)
DCV Ranges	100 mV, 1 V, 10 V, 100 V, 1000 V
DCV Best Resolution	0.1 uV on 100 mV
DCV Input Resistance Low	greater than 10 Gohm on 100 mV to 10 V
ACV Ranges	100 mV to 750 V RMS
DCI Ranges	10 mA, 100 mA, 1 A, 3 A
ACI Ranges	1 A and 3 A
Resistance Ranges	100 ohm to 100 Mohm (2-wire and 4-wire)
Frequency Range	3 Hz to 300 kHz class
RTD Temperature	minus 200 C to plus 630 C (PT100 class, 1 mA sensor current)
Reading Rate 6.5 Digit	50 triggered readings/s via USB
Reading Rate 4.5 Digit	greater than 2000 readings/s into buffer
Reading Buffer	2000 readings
Remote Interface	USB 2.0 TMC
Dimensions	112 mm by 256 mm by 375 mm
Weight	4.1 kg

PARAMETER	VALUE
Operating Temperature	5 C to 40 C Notes Specs from Keithley Model 2100 6.5-digit USB DMM datasheet/SPEC-2100. Measurement table is common to 2100/100, 2100/120, 2100/220, and 2100/230-240; this SKU is the 220 Vac line setting. Confirm rear-panel line marking.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	5 C to 40 C
Operating Temperature	5 C to 40 C

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Specifications	
PARAMETER	VALUE
Alias	2100/220; 2100220; Keithley 2100 220 Vac
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Specifications	
PARAMETER	VALUE
DCV Input Resistance Low	greater than 10 Gohm on 100 mV to 10 V
ACV Ranges	100 mV to 750 V RMS
DCI Ranges	10 mA, 100 mA, 1 A, 3 A

Specifications

PARAMETER	VALUE
ACI Ranges	1 A and 3 A
Resistance Ranges	100 ohm to 100 Mohm (2-wire and 4-wire)
Frequency Range	3 Hz to 300 kHz class

Specifications

PARAMETER	VALUE
RTD Temperature	minus 200 C to plus 630 C (PT100 class, 1 mA sensor current)
Reading Rate 6.5 Digit	50 triggered readings/s via USB
Reading Rate 4.5 Digit	greater than 2000 readings/s into buffer

Specifications

PARAMETER	VALUE
Reading Buffer	2000 readings
Remote Interface	USB 2.0 TMC
Dimensions	112 mm by 256 mm by 375 mm

Weight: 4.1 kg

Operating Temperature: 5 C to 40 C

Notes

Specs from Keithley Model 2100 6.5-digit USB DMM datasheet/SPEC-2100. Measurement table is common to 2100/100, 2100/120, 2100/220, and 2100/230-240; this SKU is the 220 Vac line setting. Confirm rear-panel line marking.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.